



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re application of

DANIEL R. CALDWELL ET AL.

Serial No. 10/706,762 (TI-36721)

Filed November 10, 2003

For: CHEMICAL MECHANICAL POLISHING SLURRY PUMP MONITORING SYSTEM AND METHOD

Art Unit 3723

Examiner Dung v. Nguyen

Customer No. 23494

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Jay M. Cantor, Reg. No. 19,906

Sir:

## REPLY BRIEF

In reply to the Examiner's Answer, it should initially be noted that the operating principle of the subject invention in quite the opposite of the operating principle of the cited reference to Melcer. Melcer expressly states in the paragraph beidging columns 3 and 4:

"...the pump speed is corrected based on measured inlet pressure.....The pump speed is measured through the motor encoder, and the controller adjusts the control signals to maintain the calculated pump speed." (underline not in original)

On the other hand, in accordance with the subject invention, the pump speed is controlled

based upon the measured pump rotational speed and other signals at a computer. In other words,

the cited reference corrects pump speed based upon inlet pressure whereas the subject disclosure

corrects pump speed based upon measured pump rotational speed and other factor, not of which

includes inlet pressure. It follows that the claims herein define patentably over Melcer both

under section 102, which is the basis of the sole basis of the rejection of claims 11 to 16 and 18 as

well as claims 17, 19 and 20, which were rejected under section 103.

With reference to claim 11, this claim requires, in addition to the controller, a computer

coupled to the rotation sensing device and the controller, the computer operable to: receive the

drive voltage from the controller; receive the voltage from the rotation sensing device and

compare the voltage to a threshold voltage that is based, in part, on the drive voltage in order to

monitor the peristaltic pump during use. No such structure is found in Melcer.

For the reasons stated above as well as in the Brief on Appeal, reversal of the final

rejection and allowance of the claims herein is requested that justice be done in the premises.

Respectfully submitted,

Jay M. Cantor

Reg. No. 19906

(301) 424-0355

(972) 917-5293